CLAIMS

WE CLAIM:

 A method of controlling an antenna signal combiner in a vehicle having multiple antenna elements, a navigational system and a receiver comprising the steps of:

Receiving signals from at least one transmitter;

- Determining first position coordinates of said vehicle using said navigational system;
- Determining second position coordinates of said at least one transmitter:
- Combining signals from said multiple antenna elements to steer an antenna beam from said first position coordinates to said second position coordinates.
- The method according to claim 1 wherein said second position coordinates are determined using Keplerian elements.
- The method according to claim 1 wherein said first position coordinates are derived from a GPS receiver.
- 4. The method according to claim 1 wherein a steering angle is obtained in response to said first position coordinates and second position coordinates, wherein steering coefficients are determined by a coefficient generator based on said steering signal, and wherein said steering coefficients are applied to steer said antenna beam from said first position coordinates towards said second position coordinates.
- The method according to claim 1 wherein said second position coordinates are derived from a manual input.
- The method according to claim 1 wherein said second position coordinates are broadcast by said at least one transmitter.
- 7. The method according to claim 1 wherein said second position coordinates are derived using triangulation.

- The method according to claim 1 wherein said first position coordinates are derived from a GPS receiver.
- A broadcast receiver for a vehicle having multiple antenna elements for receiving broadcast signals comprising;
 - a vehicle localizer generating first position coordinates;
- a broadcast transmitter localizer generating second position coordinates; and an antenna signal combiner steering an effective antenna beam from said first position coordinates toward said second position coordinates.
- 10. The broadcast receiver according to claim 9 wherein said antenna signal combiner comprises:

an antenna steering angle generator for generating an antenna steering angle based on first position coordinates and said second position coordinates;

wherein steering coefficients are generated based on said steering angle by a coefficient generator;

wherein said steering coefficients are applied to said antenna signal combiner to steer an effective antenna beam from said first position coordinates toward said second position coordinates.

- 11. The broadcast receiver according to claim 9 wherein first position coordinates are derived from a vehicle localizer comprising a tire rotation monitor and a vehicle turn indicator.
- 12. The broadcast receiver according to claim 9 wherein said second position coordinates are derived from a broadcast transmitter localizer comprising a database having locations of predetermined broadcast transmitters.
- 13. The broadcast receiver according to claim 9 wherein said second position coordinates are derived from a manual input.
- 14. The broadcast receiver according to claim 9 wherein said second position coordinates are calculated using triangulation.
- 15. The broadcast receiver according to claim 9 wherein said first position coordinates are derived from a GPS receiver.